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## HIV / AIDS

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## HIV/AIDS


### HIV Disease

HIV disease is the result of infection with human immunodeficiency virus (HIV), which is primarily transmitted through sexual contact, and through sharing needles and other drug paraphernalia by injecting drug users. HIV infection results in progressive deterioration of the immune system, a process that generally takes place over a period of years. During the early years of HIV disease, the infected person is usually asymptomatic. However, as damage to the immune system continues, the individual typically begins to experience non-specific signs/symptoms of illness and then, in the later stages of the disease when immune system dysfunction becomes severe, the person becomes at risk for serious opportunistic infections and malignancies. It is in the later stages of HIV disease that the individual comes to meet the case definition for AIDS.

**Etiologic Agent:** Human immunodeficiency virus (HIV), a retrovirus, whose genetic material becomes incorporated into the genetic material of certain cells of the infected host, resulting in life-long infection.

**Mode of Transmission:** HIV is primarily spread through sexual contact with an infected person, and through sharing needles and/or other drug paraphernalia with someone who is infected. Babies born to HIV-infected women may become infected before or during birth, or through breast-feeding after birth. Health care workers can become infected through percutaneous, mucous membrane, or non-intact skin exposures to blood from an HIV-infected patient. HIV can also be transmitted through transfusions of contaminated blood or blood clotting factors, although this is now an extremely rare occurrence.

Human immunodeficiency virus has been isolated from blood (including lymphocytes, macrophages, and plasma) and from other body fluids, such as cerebrospinal fluid, pleural fluid, human milk, semen, cervical secretions, saliva, urine, and tears. Only blood, semen, cervical secretions, and human milk, however, have been implicated epidemiologically in transmission of infection. The established modes of HIV transmission in the United States are the following: (1) sexual contact (homosexual and heterosexual), (2) percutaneous (from needles or other sharp instruments) or mucous membrane exposure to contaminated blood or other body fluids with high titers of HIV, (3) mother-to-infant (i.e., vertical) transmission before or around the time of birth, and (4) breastfeeding. Transfusion of

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blood, blood components, or clotting factor concentrates is now rarely a mode of HIV transmission in the United States because of exclusion of infected donors, viral inactivation treatment of clotting factor concentrates, and the availability of recombinant clotting factors. . . . . In the absence of documented parenteral, mucous membrane, or skin contact with blood or blood-containing body fluids, transmission of HIV rarely has been demonstrated to occur in families or households or with routine care in hospitals or clinics. Transmission of HIV has not been demonstrated to occur in schools or child care settings. . . . . A few cases of HIV infection in children have resulted from sexual abuse by an HIV-seropositive person. (2000 Red Book, p.330-1) Infections that. . . . . can be asymptomatic for long periods after vertical transmission (e.g. . . . . HIV infection. . .) are more problematic [in terms of assessing the likelihood of sexual abuse]. The possibility of vertical transmission should be considered in these cases, but an evaluation of the patient's circumstances by the local child protective services agency is warranted in most. (2000 Red Book, p.143)

**Incubation:** In the absence of antiretroviral treatment, the median time between infection with HIV and the development of AIDS among adults is approximately 10 years.

**Clinical Features:** Within several weeks after infection, many persons develop an acute flu-like illness lasting for approximately two weeks. Most individuals then remain symptom-free for long periods (several years), but viral replication is ongoing during this time. As the immune system becomes increasingly damaged, individuals typically begin to develop non-specific symptoms/signs such as anorexia, lymphadenopathy, chronic diarrhea, weight loss, fever and fatigue. In advanced stages of the disease, persons become increasingly susceptible to life-threatening opportunistic infections and malignancies. See figure 3 on page 3.

**Complications:** Infection with HIV generally results in progressive damage to the immune system. This damage eventually becomes so severe that the individual develops serious opportunistic infections and malignancies, which can result in death.

**Diagnosis:** HIV infection in adults, adolescents, and children >18 months of age is generally diagnosed with an HIV antibody test.

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Serologic diagnosis of HIV infection in the perinatally-exposed infant <18 months of age is complicated by passive transfer of maternal antibody across the placenta; this antibody can persist in the child for up to 18 months. Consequently, perinatally-exposed infants are usually diagnosed using viral diagnostic assays such as polymerase chain reaction (PCR) or HIV culture.

**Treatment:**

A number of antiretroviral drugs are now available for the treatment of HIV infection. These drugs, while not eliminating the infection, can decrease the amount of virus in the blood and slow the progression of the disease. Because HIV can become resistant to any of these drugs, combination treatment is now routinely used. It is vitally important that all antiretroviral medication be taken exactly as prescribed, and that doses are not missed.

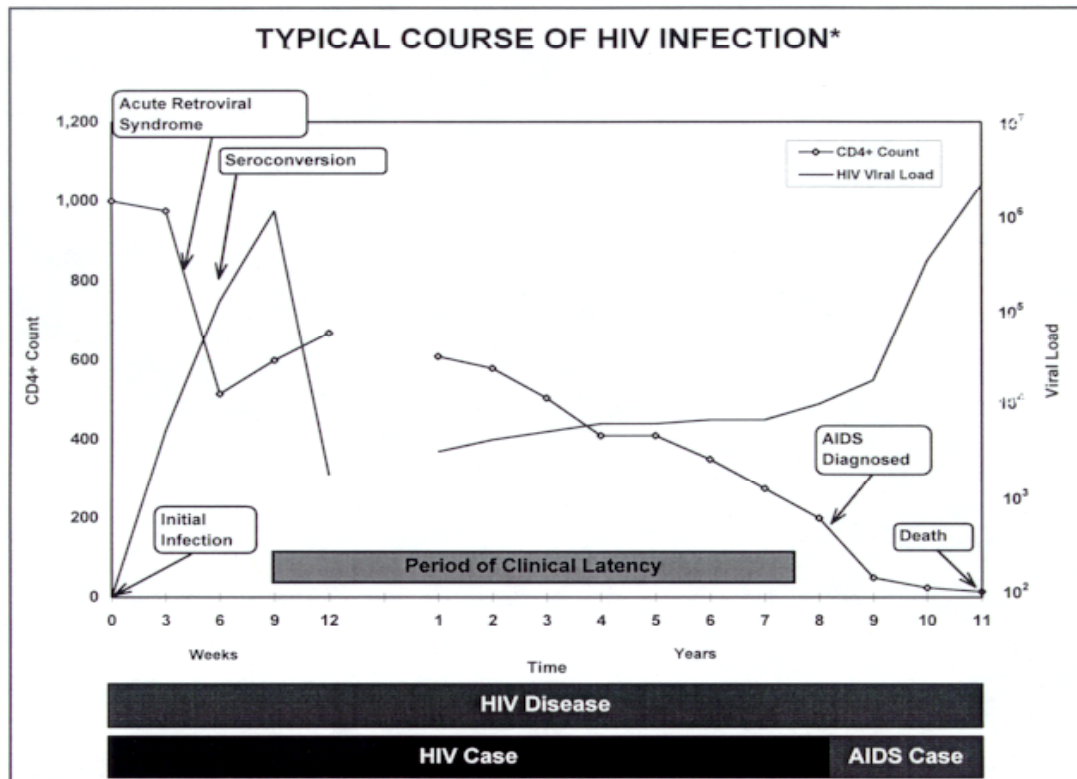
The currently recommended drug combinations are not easy to take because of the large number of pills that must be taken at multiple specified times, and because of side effects associated with the medications. In addition, while the drugs provide significant benefit for many HIV-infected persons, they are not effective in all infected individuals. Also, persons who initially respond to combination therapy may subsequently develop resistance to their drug regimens.

Persons in the later stages of HIV disease are also routinely given antimicrobial medications to reduce the risk of developing certain opportunistic infections.

**Disease  
Intervention of  
Sex Partners:**  
the

Sex and needle-sharing partners of HIV-infected persons should be notified of their exposure as soon as possible after they are identified to offer testing, promote life-style changes and prevent the spread of

virus (which is generally done by the Disease Intervention Specialists, Section 1.0). Exposed contacts testing HIV-negative but in the [window period](#) should be re-tested until six months after the time of last exposure.




\*This figure shows the "typical" course of HIV disease. It may not reflect the disease course in a particular person, given the wide range of individual variation which exists. In addition, this figure was developed prior to the use of the newer combination antiretroviral therapies. The use of these therapies can change the appearance of the figure (for example, by increasing the period of clinical latency, or by increasing the period from AIDS diagnosis to death).

**Associated Clinical Manifestations of HIV Disease and the CD4+ Count Range\* at Which They Tend to Appear:**

<b>CD4+ &gt;500</b>	Persistent Generalized Lymphadenopathy Recurrent Vaginal Candidiasis	<b>CD4+ &lt;200</b>	<i>P. carinii</i> Pneumonia Disseminated Histoplasmosis Miliary/Extrapulmonary TB Progressive Multifocal Leuko-encephalopathy (PML) HIV-Associated Dementia Wasting Peripheral Neuropathy Non-Hodgkins Lymphoma Cardiomyopathy
<b>CD4+ 200-500</b>	Pneumococcal and Other Bacterial Pneumonia Pulmonary TB Herpes Zoster Oropharyngeal Candidiasis (Thrush) Cryptosporidiosis, Self-Limited Kaposi's Sarcoma Oral Hairy Leukoplakia Cervical Intraepithelial Neoplasia Cervical Cancer Anemia B-Cell and Hodgkin's Lymphoma Idiopathic Thrombocytopenic Purpura Lymphocytic Interstitial Pneumonitis	<b>CD4+ &lt;100</b>	Disseminated Herpes Simplex Toxoplasmosis Cryptococcosis Cryptosporidiosis, Chronic Microsporidiosis Candidal Esophagitis
	<b>CD4+ &lt;50</b>	Disseminated Cytomegalovirus (CMV) Disseminated Mycobacterium avium Complex Central Nervous System (CNS) Lymphoma	

\*Most complications occur with increased frequency at lower CD4 counts.

Bartlett JG, Gaillat JE. 2001-2002 *Medical Management of HIV Infection*. Published by Johns Hopkins University, Department of Infectious Diseases, 2001. [http://www.hopkins-aids.edu/publications/book/book\\_toc.html](http://www.hopkins-aids.edu/publications/book/book_toc.html)

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## HIV Disease Websites

DHSS Disease Directory: HIV/AIDS

<http://www.dhss.state.mo.us/GLRequest/ID/HIVAIDS.html>

CDC Division of HIV/AIDS Prevention

<http://www.cdc.gov/hiv/dhap.htm>

HIV/AIDS Treatment Information Service (ATIS)

<http://www.aidsinfo.nih.gov/>

NIAID. AIDS.

<http://www.niaid.nih.gov/publications/aids.htm>

Medical Management of HIV Infection

[http://www.hopkins-aids.edu/publications/book/book\\_toc.html](http://www.hopkins-aids.edu/publications/book/book_toc.html)

HIV InSite Knowledge Base

<http://hivinsite.ucsf.edu/InSite.jsp?page=KB>

CDC. STD Facts & Information: HIV/AIDS & STDs

[http://www.cdc.gov/nchstp/dstd/disease\\_info.htm#HIV&STDs](http://www.cdc.gov/nchstp/dstd/disease_info.htm#HIV&STDs)

National Library of Medicine HIV/AIDS Information

<http://sis.nlm.nih.gov/HIV/HIVMain.html>

National Prevention Information Network (NPIN) HIV/AIDS Resources

<http://www.cdcnpin.org>

HRSA HIV/AIDS Services

<http://hab.hrsa.gov/>


MMWRs on HIV/AIDS

<http://www.cdc.gov/hiv/pubs/mmwr.htm>

FDA. Licensed / Approved HIV, HTLV and Hepatitis Tests

<http://www.fda.gov/cber/products/testkits.htm>



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## Laboratory Tests for HIV in Adults

HIV infection in adults, adolescents, and children >18 months of age is usually diagnosed by using HIV-1 antibody tests. Antibody testing begins with a sensitive screening test such as the enzyme immunoassay (EIA, or ELISA). Reactive screening tests must be confirmed by a supplemental test, such as the Western blot (WB) or an immunofluorescence assay (IFA). If confirmed by a supplemental test, a positive antibody test result indicates that a person is infected with HIV and is capable of transmitting the virus to others. Elisa and Western Blot testing may be performed on either blood or oral fluids. However, oral testing is not recommended for individuals under 13 years of age.

Two major HIV types have been characterized in humans: HIV-1, which causes nearly all cases of HIV infection in the U.S. and HIV-2, which appears to be an uncommon cause of infection in the U.S. Though HIV-2 infection can lead to AIDS, it takes longer to induce immunosuppression and AIDS, it is less transmissible, and it is associated with lower mortality than HIV-1 infection. A person infected with HIV-2 may not be detected with an HIV-1 antibody test. Because the prevalence of HIV-2 in the U.S. is extremely low, CDC does not recommend routine testing for HIV-2 in settings other than blood centers, unless demographic or behavioral information indicates that HIV-2 infection might be present. Those at risk for HIV-2 infection include persons from a country in which HIV-2 is endemic or their partners. HIV-2 is endemic in parts of West Africa, and an increased prevalence of HIV-2 has been reported in Angola, France, Mozambique, and Portugal. In addition, testing for HIV-2 should be conducted when there is clinical evidence or suspicion of HIV disease in the absence of a positive test for antibodies to HIV-1.

Information on CD4+ tests and viral load measurements in adolescents and adults can be found in "Guidelines for the Use of Antiretroviral Agents in HIV-Infected Adults and Adolescents". Similar information for children can be found in "Guidelines for the Use of Antiretroviral Agents in Pediatric HIV Infection". Both of these documents are periodically updated and are available on the HIV/AIDS Treatment Information Service (ATIS) web site (<http://www.hivatis.org/trtgdlns.html>). A discussion of the different tests used in the detection/management of HIV disease is found in: Bartlett JG, Gallant JE. *2000-2002 Medical Management of HIV Infection*. Published by Johns Hopkins University, Department of Infectious Diseases, 2001. (<http://www.hopkins-aids.edu/publications/book/ch2-main.html>.)

Recently, the FDA has approved use of a rapid test to diagnose HIV. At time of publication of this document, Missouri Department of Health and Senior Services is in the process of updating a rule to allow use of this test. Information on rapid testing can be found at [www.orasure.com](http://www.orasure.com).

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## **Laboratory Tests for HIV in Children**

### **1. Less than 18 months of age**

Infants born to HIV-infected mothers (HIV-exposed infants) present special diagnostic problems. Positive HIV antibody tests in children up to 18 months of age born to HIV-infected mothers are not necessarily diagnostic of infection, because the antibodies in the child may be due to passive transfer of maternal HIV antibody. Passively acquired HIV antibody falls to undetectable levels among most infants by 18 months of age. HIV infection can be definitely diagnosed in most infected infants by age one month and in virtually all infected infants by age six months by using viral diagnostic assays.


HIV infection can be definitively diagnosed in most infected infants by age one month and in virtually all infected infants by age six months by using viral diagnostic assays. A positive virologic test (i.e., detection of HIV by culture or DNR or RNA polymerase chain reaction [PCR]) indicates possible HIV infection and should be confirmed by a repeat virologic test on a second specimen as soon as possible after the results of the first test become available. Diagnostic testing should be performed before the infant is age 48 hours, at age one to two months, and at age three to six months. Testing at age 14 days also may be advantageous for early detection of infection. HIV-exposed infants should be evaluated by or in consultation with a specialist in HIV infection in pediatric patients.

HIV DNA PCR is the preferred virologic method for diagnosing HIV infection during infancy. A meta-analysis of published data from 271 infected children indicated that. . . . 38% of infected children had positive PCR tests by age 48 hours. No substantial change in sensitivity during the first week of life was observed, but sensitivity increased rapidly during the second week, with 93% of infected children testing positive by PCR by age 14 days.

Assays that detect HIV RNA in plasma also may be useful for diagnosis of perinatal infection and may prove to be more sensitive than DNA PCR for early diagnosis of HIV infection in HIV-exposed infants. However, data are more limited regarding the sensitivity and specificity of HIV RNA assays compared with HIV DNA PCR for early diagnosis.

HIV culture has a sensitivity similar to that of DNA PCR for the diagnosis of infection. However, HIV culture is more complex and expensive to perform than DNA PCR, and definitive results may not be available for two to four weeks.



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Although use of standard and immune-complex-dissociated p24 antigen tests are highly specific for HIV infection and have been used to diagnose infection in children, the sensitivity of these tests is less than the sensitivity of other HIV virologic tests. The use

of p24 antigen testing alone is not recommended to exclude infection or for diagnosis of infection in infants aged less than a month because of a high frequency of false-positive assays during this time.


Initial testing is recommended by age 48 hours because nearly 40% of infected infants can be identified at this time. Because of the concerns regarding potential contamination with maternal blood, blood samples from the umbilical cord should not be used for diagnostic evaluations.

Repeat diagnostic testing can be considered at age 14 days in infants with negative tests at birth, because the diagnostic sensitivity of virologic assays increases rapidly by age two weeks and early identification of infection would permit modification of antiretroviral therapy from the standard six-week course of neonatal ZDV chemoprophylaxis to more aggressive combination antiretroviral therapy. Infants with initially negative virologic tests should be re-tested at one to two months.

Although prophylactic antiretroviral therapy theoretically could affect the predictive value of HIV virologic testing in neonates, ZDV monotherapy did not delay the detection of HIV by culture in infants in PACTG protocol 076 and has not decreased the sensitivity and predictive values of many virologic assays. However, whether the current, more intensive combination antiretroviral regimens women may receive during pregnancy for treatment of their own HIV infection will affect diagnostic test sensitivity in their infants is unknown.

HIV-exposed children who have had repeatedly negative virologic assays at birth and age one to two months should be retested again at age three to six months.


HIV infection is diagnosed by two positive HIV virologic tests performed on separate blood samples. HIV infection can be reasonably excluded among children with two or more negative virologic tests, two of which are performed at age >1 month, and one of those being performed at age > 4 months. Two or more negative HIV immunoglobulin G (IgG) antibody tests performed at age >6 months with an interval of at least one month between the tests also can be used to reasonably exclude HIV infection among children with no clinical evidence of HIV infection. HIV infection can be definitively excluded if HIV IgG antibody is negative in the absence of hypogammaglobulinemia at age 18 months and if the child has both not clinical symptoms of HIV infection and negative HIV virologic assays.

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Reference: Guidelines for the Use of Antiretroviral Agents in Pediatric HIV Infection,” August 2001. (<http://www.aidsinfo.nih.gov/>) These guidelines were developed by the Panel on Clinical Practices for Treatment of HIV Infection convened by the Department of Health and Human Services (DHHS) and the Henry J. Kaiser Family Foundation.

## **2. Greater than 18 months of age**

If the child is over 18 months of age, testing for antibody to HIV using the standard ELISA test with a confirmatory test (usually Western blot) is sufficient for diagnosis of HIV infection.

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## Window Period


There is a period of time following initial infection with HIV when the individual's level of HIV antibody is too low to be detected by the antibody test. This period, called the "window period", will vary in different individuals, but has been said to average about four to six weeks. However, it has been estimated that, when the most recent HIV antibody tests are used, the average length of this window period is only about 25 days. By six months after the time of initial infection, most infected persons will have detectable levels of HIV antibody. Thus, although a negative antibody test result usually indicates that the person is not infected, antibody tests cannot exclude infection that occurred <6 months before the test.

### **Persons at highest risk of infection:**

- test immediately, to establish baseline information
- test again at three and six months, respectively
- if negative results are obtained six months after the time of last exposure, it is unlikely that infection has occurred.

### **Persons at relatively low risk of infection:**

- test three to six months after the last presumed exposure
- when patient anxiety is considerable, immediate testing followed by re-testing in three to six months may be appropriate.

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## Interpretation of Test Results

If an adult, adolescent, or child >18 months of age has a repeatedly reactive HIV EIA (ELISA) test followed by a positive confirmatory test (usually a Western blot), he or she is considered to be infected with HIV and capable of transmitting the virus to others.

Although a negative antibody test means that no antibodies were detected at the time of testing, it is possible that the person has been infected but has not yet produced detectable levels of antibody (See Subsection 6.4). Antibody tests cannot rule out infection that occurred <6 months before the test.

The current generation of HIV antibody tests is very accurate, having excellent sensitivity and specificity.


- ✓ The sensitivity of the test reflects its ability to detect any HIV antibody that may be present in the specimen being tested. Put another way, the sensitivity of the test indicates its ability to avoid false-negative results. With currently available HIV antibody tests, sensitivity is close to 100%.
- ✓ The specificity of the test reflects its ability to avoid false-positive results. A test which is highly specific will very rarely give a positive result on someone who is uninfected. The high specificity of the HIV antibody test is indicated by a study conducted by the U.S. Army, that found the test had a false-positive rate of one in 135,000. This is confirmed by a second study, performed on donated units of blood and monitored by CDC, which found that the test's specificity was at least 99.9994%.

On occasion, the results of the Western blot test are reported as equivocal (indeterminate). Potential causes of equivocal results include:

- 1) early stage HIV infection when the person is in the process of seroconverting;
- 2) advanced HIV infection with decreased antibody titers;
- 3) cross-reacting alloantibodies from pregnancy, blood transfusions, or organ transplantation
- 4) autoantibodies as seen with collagen-vascular diseases, autoimmune disease, and malignancy;
- 5) infection with HIV-2; and
- 6) receipt of an experimental HIV vaccine.

One approach to managing a patient with an equivocal (indeterminate) Western blot test is the following:

Most authorities suggest that persons with indeterminate results should be retested. If at all possible, the retesting of an individual at a later time should be performed in parallel


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with re-assay of the initial sample on the same run with the same kit lot number and the same assay conditions to ensure that the samples can be directly compared. The World Health Organization (WHO) recommends retesting persons after two weeks if highly suggestive Western blot profiles are produced, although other organizations suggest waiting one to six months before retesting. If an individual is re-tested over a period of six months and becomes negative or the band profiles do not progress, infection with HIV can generally be ruled out. For poorly understood reasons, many individuals continue to exhibit indeterminate results for years but are not infected. If an individual does progress serologically (more bands, or greater intensity of bands) or converts to positive (sero-conversion) during retesting, the individual was probably infected at the time of the first test (early infection). It should be noted that individuals who have received vaccination for HIV (e.g., subunit gp160), may be misidentified as positive based on reactions to the envelope antigens alone.

The significance of an indeterminate Western blot result varies depending on the risk factors, clinical status of the patient, and the Western blot profile produced. For example, individuals with a history of high-risk behavior are more likely to be the ones who later sero-convert, because the chances of their being infected are high. In addition, some Western blot profiles are more suggestive of early infection (e.g., p24, p31, and p55) than are others (eg., p17 only). Many initially indeterminate results that subsequently become negative or remain indeterminate are probably a result of non-specific reactions, hypergammaglobulinemia, the presence of cross-reactive antibodies, infection by HIV-2, or infection by an unknown, but related retrovirus. Also, it is known that some individuals with AIDS may lose reactivity to p24, and perhaps other antibodies, later in disease, so that even AIDS patients may have indeterminate Western blot results by some criteria.

Ancillary tests, such as PCR and viral culture, may be helpful in resolving indeterminate results if the diagnosis is in question.

(Constantine, N. HIV Antibody Testing: Methodology, in Cohen PT, Sande MA, Volberding PA [eds.]. *The AIDS Knowledge Base* [3<sup>rd</sup> Ed.]; 1998)

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## Pre-Test Counseling


HIV counseling is considered to be an important HIV-prevention strategy. By ensuring that counseling is empathic and "client-centered", clinicians will be able to develop an accurate assessment of the person's risk and help him or her to develop a specific and realistic HIV-prevention plan.

Genuine, non-judgmental concern for the patient creates an atmosphere conducive to open communication. Open-ended questions yield maximum information. Allow the patient to ask questions and to express feelings.

Patients should be encouraged to initiate risk-reduction behaviors while waiting for test results, behaving as if they are sero-positive to prevent HIV transmission during this time period. An appointment should be made for a return visit to receive posttest counseling and test results. **HIV test results are generally not to be given over the telephone and never by mail.**

For additional counseling guidelines, refer to CDC Guidelines for HIV Counseling, Testing, and Referral in the appendix or at <http://www.cdc.gov/mmwr/PDF/rr/rr5019.pdf>.



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## Informed Consent

Informed consent should be obtained before conducting an HIV test. Patients should be given an opportunity to ask questions or express concerns they may have. Persons must be informed of state reporting laws as part of the informed consent process.

### Summary of Prevention Counseling Procedures:


- Provide HIV education (virus that damages the immune system, transmission, etc.)
- Conduct risk assessment, including sex and drug use history
- Counsel about risk reduction
- Provide information about the test (explain positive/negative results)
- Obtain informed consent
- Referral to medical, psychosocial and/or drug/alcohol intervention services

An [HIV Risk Assessment/Consent form](#) can be found in this subsection.

[19 CSR 20-26.030](#) contains regulations for persons (except physicians and their “delegated representatives”) providing HIV counseling and testing. These regulations state that “informed consent shall be obtained from the person prior to HIV testing, unless otherwise permitted by law.”

Physicians (and their “delegated representatives”) who perform HIV testing are regulated under [19 CSR 20-26.040](#), which does not mention informed consent, but states that the physician must “consult” with the patient prior to testing.

19 CSR 20-26.030 and 19 CSR 20-26.040 are available at:  
<http://www.sos.mo.gov/adrules/csr/current/19csr/19c20-26.pdf>

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## Overview of HIV Testing Procedures

For clients who request HIV testing, the following format is recommended:

### A. Pretest

1. Conduct a risk assessment
  - a. What brought the client in for testing?
  - b. What high risk behaviors are identified?
2. Facilitate prevention counseling, questions answered
3. Develop Risk Reduction Plan with client
4. Obtain signed, witnessed informed consent
5. Provide appropriate brochures


### B. Obtain Sample

### C. Giving Negative Results

1. Give test results, answer questions
  - a. Give test results. Does client feel he/she is at risk? When? What activities or situations have they been involved in which makes them feel they are placed at greatest risk?
2. Discuss client's alternatives to past behavior
3. Renegotiate individualized risk reduction plan with client
4. Initiate other community referrals, as indicated
5. Schedule retest, if requested by client
6. Give negative brochure

### D. Giving Positive Results

1. Call your local Disease Intervention Program and they will assist you in this process (Appendix C).
2. Complete the Confidential HIV Report (blue card provided if the State Public Health Laboratory is used) and return to the Office of Surveillance.
3. Disease Intervention Program staff will provide post-test counseling and partner elicitation to the positive client.
4. Disease Intervention Program staff will assure referrals are made into HIV care/prevention follow up services.

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## **Management of Sex/Needle-Sharing Partners**


When referring to persons who are infected with HIV, the term “partner” includes not only sex partners but also injecting-drug users who share syringes or other injecting equipment. The rationale for partner notification is that the early diagnosis and treatment of HIV infection possibly reduces morbidity and provides the opportunity to encourage risk-reducing behaviors. Partner notification for HIV infection must be confidential and will depend on voluntary cooperation of the patient.

Two complementary notification processes, patient referral and provider referral, can be used to identify partners. With patient referral, patients directly inform their partners of their exposure to HIV infection. With provider referral, trained health department personnel locate partners on the basis of the names, descriptions, and addresses provided by the patient. During the notification process, the anonymity of patients is protected; their names are not revealed to partners who are notified. Many state health departments provide assistance, if requested, with provider-referral partner notification.

The results of one randomized trial suggested that provider referral is more effective in notifying partners than patient referral. In that study, 50% of partners in the provider-referral group were notified, compared with 7% of partners notified by persons in the patient-referral group. However, whether behavioral change takes place as a result of partner notification has not been determined. Many patients state they are reluctant to disclose the names of partners due to concerns about discrimination, disruption of relationships, loss of confidentiality for the partners, and possible violence.

The following are specific recommendations for implementing partner-notification procedures:

- HIV-infected patients should be encouraged to notify their partners and to refer them for counseling and testing. If requested by the patient, health-care providers should assist in this process, either directly or by referral to health department partner-notification programs.
- If patients are unwilling to notify their partners, or if they cannot ensure that their partners will seek counseling, physicians or health department personnel should use confidential procedures to notify the partners.


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## **Case Management**

The Missouri Department of Health and Senior Services (MDHSS), through the HIV/AIDS Case Management Program, provides assistance in locating and coordinating medical and psychosocial services for individuals with HIV or AIDS. The Disease Intervention Programs notify providers of this program for their patients when calling for clarification of partner notification. When the Disease Intervention Programs interview/counsel patients, information regarding this program is provided to HIV-infected individuals.

The program is available statewide, free of charge, regardless of the insurance or financial status of the individual with HIV or AIDS. Case Managers are located in a variety of settings, including local health departments and community-based organizations (See Appendix C for listing.)

Individuals may contact a case management office or may be referred, with their permission, by physicians, family, friends or volunteer organizations. Upon referral, a case manager will make arrangements to meet with the individual. Meetings may occur in the individual's home, doctor's office, clinic, hospital, case manager's office or other setting. The individual will be given information about HIV/AIDS, disease transmission and methods to maintain a healthy lifestyle. The individual may choose to enroll as a client in the program. The client will work with the case manager to complete an evaluation/assessment and develop a service plan. The client is always an equal partner with the case manager in the overall planning, the decision making and the implementation of the service plan. The case manager will assist the client in locating and accessing services such as medical care, housing, counseling, transportation, etc. as needed. The client will meet with the case manager on a regular basis to re-evaluate and update the service plan. Information regarding the eligibility criteria for services is available from the case manager.

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## HIV in Pregnancy

Increased understanding of the mechanisms of perinatal transmission of HIV and the discovery of an effective therapeutic intervention have provided the opportunity to significantly reduce the occurrence of mother-to-infant transmission. The results from the AIDS Clinical Trials Group (ACTG) 076 study indicated that administration of zidovudine (ZDV, AZT) to a selected group of pregnant women infected with HIV and to their newborns reduced the risk for perinatal HIV transmission by approximately two-thirds (from approximately 26% to 8%).

Incorporation of this regimen into clinical practice, coupled with increased prenatal HIV-1 counseling and testing, resulted in falling perinatal transmission rates to as low as 4-6%. Transmission rates of 2% or less have been reported when zidovudine is combined with elective caesarean delivery or when women are treated with combination antiretroviral regimens that reduce maternal viral load to unquantifiable levels. (Mofenson LM, McIntyre JA. Advances and research directions in the prevention of mother-to-child HIV-1 transmission. *Lancet* 2000; 355:2237-44.)


With the availability of specific therapy to significantly reduce perinatal transmission risk, it is very important for all pregnant women to receive appropriate prenatal care and be offered the opportunity to know their HIV infection status.

In 1996, the Missouri Department of Health developed a policy to reduce the risk of perinatal HIV transmission (<http://www.dhss.state.mo.us/MoEpi/moepi182.pdf>). This policy includes the following recommendations:

Prenatal care should routinely include HIV education and counseling and each pregnant woman should be encouraged to undergo voluntary HIV testing. Each HIV-infected pregnant woman should be informed of the substantial benefit and potential risks of antiretroviral therapy administered during pregnancy and the neonatal period.

If a woman has not been tested for HIV during the prenatal period, she should, at the time she presents for delivery, receive counseling and be encouraged to undergo HIV testing. If a woman chooses not to be tested for HIV, she should be informed of the significant benefits to her child's health of knowing her child's infection status, and she should be encouraged to allow the child to be tested. It should be ensured that the mother provides consent with the understanding that a positive HIV test for her child is indicative of infection in herself.

HIV-infected mothers should be advised against breastfeeding in order to reduce the risk for HIV transmission.

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Before an HIV-infected woman and her infant leave the hospital, arrangements should be made for appropriate, ongoing medical care and other necessary services for both individuals. If an HIV-infected woman is not enrolled in Case Management, she should be encouraged to accept a referral to this program.

“Guidelines for the Use of Antiretroviral Agents in Pediatric HIV Infection,” August 8, 2001 ([http://www.aidsinfo.nih.gov/guidelines/default\\_db2.asp?id=51](http://www.aidsinfo.nih.gov/guidelines/default_db2.asp?id=51)), state that identification of HIV-infected women before or during pregnancy is critical to providing optimal therapy for both infected women and their children and to preventing perinatal transmission. Therefore, prenatal HIV counseling and testing with consent should be the standard of care for all pregnant women in the United States.

The American Academy of Pediatrics and the American College of Obstetricians and Gynecologists recommend that all pregnant women should receive HIV education and counseling as part of their regular prenatal care. They further recommend HIV testing in all pregnant women with their consent. In the event of refusal of testing, this should be documented. For newborns whose mother’s HIV status was not determined during pregnancy, the infant’s health care provider should educate the parent(s) concerning HIV testing and recommend HIV testing for the newborn. (<http://www.aap.org/advocacy/washing/hivtest.htm>)

The CDC Revised Guidelines for HIV Counseling, Testing, and Referral and Revised Recommendations for HIV Screening of Pregnant Women can be found in the appendix and online at: <http://www.cdc.gov/mmwr/PDF/rr/rr5019.pdf>.



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## Treatment/Prophylaxis

Treatment recommendations for HIV disease are highly complex and continually changing as results of clinical trials become known and as new therapeutic agents become available. Refer to the current treatment guidelines (which are periodically updated) published on the HIV/AIDS Treatment Information Service (ATIS) web site (<http://www.aidsinfo.nih.gov/>)



MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES  
SECTION OF STD/HIV  
**HIV RISK ASSESSMENT/CONSENT**

CLIENT ID/LAB NUMBER

NAME		TELEPHONE NUMBER	DATE OF VISIT
ADDRESS		ZIP CODE	COUNTY

DATE OF BIRTH	AGE	<input type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> M <input type="checkbox"/> S <input type="checkbox"/> D <input type="checkbox"/> W <input type="checkbox"/> Sep <input type="checkbox"/> SO <input type="checkbox"/> Live-in
Race: <input type="checkbox"/> W <input type="checkbox"/> B <input type="checkbox"/> H <input type="checkbox"/> API <input type="checkbox"/> NA <input type="checkbox"/> Other _____		Date of last sex? _____	Date of last needle-sharing? _____

<b>Test History</b> Have you been tested before? <b>NO</b> _____ <b>YES</b> _____ # Times: _____	<b>Last Test</b> Where? _____ When? _____ <b>Results</b> Negative _____ Positive _____ Equivocal _____ Unknown _____	How many sex partners in the last six months? _____	How many needle-sharing partners in the last six months? _____
<b>Current Test Results:</b> _____		Pregnant? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	

SEXUAL BEHAVIOR	DRUG USE HISTORY / DATES	ADDITIONAL EXPOSURE
<b>Counselor: Enter date of last time</b> ____ Sex with male Oral Perform _____ Receive _____ Anal Insert _____ Receive _____ Vag Insert _____ ____ Sex with female Oral Perform _____ Receive _____ Anal Insert _____ Receive _____ Vag Insert _____ Receive _____ ____ Sex with HIV + partner ____ Sex with injecting drug user ____ Exchange of sex for money, drugs, etc. ____ Victim of sexual assault/abuse	<b>Counselor: Enter date of last time</b> ____ Injected drugs ____ Shared needles ____ Sex with drug or alcohol use ____ Other drug use  <b>BARRIER / CONDOM USAGE</b> <input type="checkbox"/> Always <input type="checkbox"/> Sometimes <input type="checkbox"/> Rarely/Never	____ Occupational exposure ____ Tattoo/body piercing ____ Neonatal/mother of HIV + ____ Other
		COMMUNICABLE DISEASE / DATES
		<b>Counselor: Enter date of last time</b> ____ Syphilis – RPR given _____ ____ Gonorrhea ____ Chlamydia ____ Herpes ____ TB/+ PPD ____ Hepatitis type _____ ____ Other

### CONSENT FOR THE HIV ANTIBODY TEST

By my signature on this form, I understand and give permission to be tested for evidence of HIV. If found to be HIV infected, I am aware that positive results are reported to the Missouri Department of Health, and that I will be offered case management services.

SIGNATURE OF CLIENT	DATE
SIGNATURE OF COUNSELOR	AGENCY
SITE OF TEST (IF AN OUTREACH TEST)	AGENCY

### Risk Reduction Plan


<b>Test Results to be given:</b>	<b>When:</b>	<b>Where?</b>
<b>Referrals:</b>		
<b>Post Test Session Date:</b> _____	<b>Recommend Retest: Date:</b> _____	<b>Counselor:</b> _____

# HIV Antibody Test Request (Lab-45, MO 580-0907)

The state laboratory performs HIV testing (Elisa and Western Blot). Specimens must be submitted in the test kits which are provided by the state laboratory and will not be processed unless submitted according to state laboratory directions. Test kits are available by phoning 573/751-4830.

FOR STATE LAB USE

869787  
869787  
869787  
869787

## SUBMITTER:

1. TEAR OFF AND KEEP COPY #1 FOR YOUR RECORDS.
2. PLACE A PRENUMBERED PEEL-OFF LABEL ON THE SPECIMEN TUBE. TWO (2) PRENUMBERED PEEL-OFF LABELS ARE FOR YOUR USE.

PLEASE LEAVE 1 PRENUMBERED PEEL-OFF LABEL FOR STATE LAB USE.

SPECIMEN WILL NOT BE TESTED UNLESS BOTH BOX A AND B ARE COMPLETED AS REQUESTED.

MISSOURI DEPARTMENT OF HEALTH  
STATE PUBLIC HEALTH LABORATORY  
307 W. McCARTY STREET  
JEFFERSON CITY, MO 65101

LAB-45 (RB-93)  
MO 580-0907 (B-93)

## HIV ANTIBODY TEST REQUEST

PATIENT ID NUMBER <b>869787</b>	DATE DRAWN
PATIENT NAME (OPTIONAL)	
DATE OF BIRTH	SEX <input type="checkbox"/> M <input type="checkbox"/> F
BOX A: ATTENDING PHYSICIAN'S NAME AND ADDRESS	
PHONE ▶	COUNTY ▶
BOX B: NAME AND ADDRESS OF SUBMITTER, LAB RESULTS WILL BE SENT TO THE SUBMITTER ONLY. <b>THIS IS YOUR RETURN ADDRESS LABEL.</b>	

## DO NOT WRITE IN THIS SPACE

PROVIDER CODE	RACE	<input type="checkbox"/> WH	<input type="checkbox"/> IND	<input type="checkbox"/> ASIA
		<input type="checkbox"/> BLK	<input type="checkbox"/> HISP	<input type="checkbox"/> OTHER

## EOAA EMPLOYER

services provided on a non-discriminatory basis

SUBMITTER FILE

# PHYSICIAN'S CONFIDENTIAL REPORT OF HIV INFECTION

PATIENT INFORMATION				PATIENT HISTORY			
1. PATIENT ID NUMBER (FROM LAB SLIP)				15. AFTER 1977, THIS PATIENT HAD: (CHECK ALL THAT APPLY)			
2. PATIENT NAME (LAST, FIRST, MI)				<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Sex With Male <input type="checkbox"/> Sex With Female <input type="checkbox"/> Injected Non-Prescription Drugs <input type="checkbox"/> Received Clotting Factor <input type="checkbox"/> VIII <input type="checkbox"/> IX <input type="checkbox"/> Other: _____ <input type="checkbox"/> Blood Transfusion: First _____ / _____ Last _____ / _____ <input type="checkbox"/> Worked In Health Care Setting: Occupation: _____ <input type="checkbox"/> Recipient Of Tissue/Organs/Artificial Insemination Date: _____ / _____			
3. ADDRESS (STREET, APT. #, P.O. BOX NO.)				<b>HETEROSEXUAL RELATIONS WITH:</b> <input type="checkbox"/> Injection Drug User <input type="checkbox"/> Bisexual Male <input type="checkbox"/> Person With Hemophilia/Coagulation Disorder <input type="checkbox"/> Transfusion/Transplant Recipient With Documented HIV Infection <input type="checkbox"/> Person With AIDS/HIV Infection Whose Risk Is Not Known			
CITY, STATE, ZIP CODE							
COUNTY		4. TELEPHONE ( )		<b>16. FOR PEDIATRIC/PERINATAL CASES</b> <input type="checkbox"/> Y <input type="checkbox"/> N IF < 13 YEARS OF AGE, MOTHER WITH HIV/AIDS? If Yes, Mother's Name: _____ Mother's DOB: _____ / _____ / _____ If Newborn, Date Anti-Retroviral Therapy for HIV Prevention Began: _____ / _____ / _____			
5. SS #		6. DCN #					
7. DATE OF BIRTH	8. AGE	9. MARITAL STATUS <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> D <input type="checkbox"/> W	10. SEX <input type="checkbox"/> M <input type="checkbox"/> F	Number of Live-Born Infants Delivered in the Last 18 Months: _____ Provide Birth Information for Most Recent Birth(s): DOB: _____ / _____ / _____ Birth Hospital: _____ Breastfed <input type="checkbox"/> Y <input type="checkbox"/> N DOB: _____ / _____ / _____ Birth Hospital: _____ Breastfed <input type="checkbox"/> Y <input type="checkbox"/> N			
11. RACE <input type="checkbox"/> Asian/Pacific Is. <input type="checkbox"/> Am. Indian/AK Native <input type="checkbox"/> Other: _____ 12. Hispanic Ethnicity <input type="checkbox"/> Yes <input type="checkbox"/> No							
13. VITAL STATUS <input type="checkbox"/> Living <input type="checkbox"/> Deceased - Date of Death: _____ / _____ / _____				If Yes, Week of Pregnancy Antiretroviral Therapy Began: _____ <input type="checkbox"/> ZDV (AZT) <input type="checkbox"/> Other: _____			
14. COUNTRY OF BIRTH <input type="checkbox"/> U.S. <input type="checkbox"/> Other: _____ <input type="checkbox"/> Unknown							
17. FOR ADULT FEMALES Hepatitis B: HBsAg <input type="checkbox"/> Pos <input type="checkbox"/> Neg <input type="checkbox"/> Y <input type="checkbox"/> N Patient is Currently Pregnant EDC: _____ / _____ / _____ If Yes, Week of Pregnancy Antiretroviral Therapy Began: _____							

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(CONTINUED)

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LABORATORY DATA																																					
18. CURRENT HIV TEST(S) <b>HIV Antibody Tests:</b>				20. IF HIV TESTS ARE NOT DOCUMENTED, IS HIV DIAGNOSED BY A PHYSICIAN? <input type="checkbox"/> Y <input type="checkbox"/> N If Yes, Diagnosis Date: _____ / _____ Provider: _____ City/State: _____																																	
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Pos	Neg	Incon- clusive	Not Done	TEST DATE MM/DD/YY																																	
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<b>HIV Detection Tests:</b>				22. PREVIOUS HIV TEST? <input type="checkbox"/> Y <input type="checkbox"/> N If Yes, Most Recent Result: <input type="checkbox"/> P <input type="checkbox"/> N <input type="checkbox"/> In																																	
<table border="0" style="width:100%;"> <tr> <td>Pos</td> <td>Neg</td> <td>Incon- clusive</td> <td>Not Done</td> <td>TEST DATE MM/DD/YY</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>____/____/____</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>____/____/____</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>____/____/____</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>____/____/____</td> </tr> <tr> <td colspan="5">Other: _____</td> </tr> </table>				Pos	Neg	Incon- clusive	Not Done	TEST DATE MM/DD/YY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____/____/____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____/____/____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____/____/____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____/____/____	Other: _____					Type of Test: <input type="checkbox"/> Antibody <input type="checkbox"/> Antigen <input type="checkbox"/> PCR <input type="checkbox"/> Culture <input type="checkbox"/> Qualitative PCR <input type="checkbox"/> Quantitative PCR (VL) <input type="checkbox"/> Other (specify) _____ Test Date: _____ / _____ / _____ Provider: _____ City/State: _____			
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Other: _____																																					
<b>HIV VIRAL LOAD TESTING:</b> (Record most recent testing)				<b>If Previously Tested, Reason for Retest:</b>																																	
<input type="checkbox"/> Detectable <input type="checkbox"/> Non-Detectable				<input type="checkbox"/> Case Management Eligibility <input type="checkbox"/> Medicaid/Medicare Eligibility <input type="checkbox"/> High Risk Negative <input type="checkbox"/> Client Request <input type="checkbox"/> Confirm Diagnosis <input type="checkbox"/> Other: _____																																	
Test Type* <input type="checkbox"/> _____ Copies/ml <input type="checkbox"/> _____, <input type="checkbox"/> _____, <input type="checkbox"/> _____ Type 11. NASBA (Organon) 12. RT-PCR (Roche) 13. bDNA (Chiron) 18. Other 19. Unspecified				TEST DATE MM/DD/YY ____/____/____																																	
19. TESTING LABORATORY NAME(S), ADDRESS(ES), TELEPHONE NUMBER(S):																																					
23. CD4+ LYMPHOCYTE COUNT:				TEST DATE MO/YR ____/____/____																																	
Most Recent CD4+ Count . . . [ ] [ ] [ ] [ ] cells/μL ____ / ____ CD4+ Percent . . . . . [ ] [ ] % ____ / ____				First CD4+below 200μL or 14% [ ] [ ] [ ] [ ] cells/μL ____ / ____ (If Known) [ ] [ ] % ____ / ____																																	

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CLINICAL STATUS																																																															
24. <input checked="" type="checkbox"/> <input type="checkbox"/> PATIENT MEDICALLY EVALUATED? If Yes, Check All That Apply																																																															
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> Asymptomatic  <input type="checkbox"/> Symptomatic, No History of AIDS-Defining Illness  <input type="checkbox"/> CD4+ is now or has been &lt;200/14%  <input type="checkbox"/> Symptomatic, AIDS-Defining Illness Diagnosed               </div> <div style="width: 50%; text-align: right;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 33%;"></th> <th style="width: 10%; text-align: center;">Def.</th> <th style="width: 10%; text-align: center;">Pres.</th> <th style="width: 10%; text-align: center;">Mo/Yr</th> </tr> <tr> <td>• Kaposi's sarcoma</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>• Lymphoma, Burkitt's (or equivalent)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>• Lymphoma, immunoblastic (or equiv.)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>• Lymphoma, primary in brain</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>• <i>M. avium</i> complex or <i>M. kansasii</i>, disseminated or extrapulmonary</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>• <i>M. tuberculosis</i>, pulmonary</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>• <i>M. tuberculosis</i>, dissem. or extrapulm.</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>• <i>Mycobacterium</i>, of other or unidentified species, dissem. or extrapulm.</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>• <i>Pneumocystis carinii</i> pneumonia</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>• Pneumonia, recurrent in 12 mo period</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>• Progressive multifocal leukoencephalopathy</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>• <i>Salmonella</i> septicemia, recurrent</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>• Toxoplasmosis of brain</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>• Wasting syndrome due to HIV</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> </div> </div>					Def.	Pres.	Mo/Yr	• Kaposi's sarcoma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Lymphoma, Burkitt's (or equivalent)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Lymphoma, immunoblastic (or equiv.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Lymphoma, primary in brain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• <i>M. avium</i> complex or <i>M. kansasii</i> , disseminated or extrapulmonary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• <i>M. tuberculosis</i> , pulmonary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• <i>M. tuberculosis</i> , dissem. or extrapulm.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• <i>Mycobacterium</i> , of other or unidentified species, dissem. or extrapulm.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• <i>Pneumocystis carinii</i> pneumonia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Pneumonia, recurrent in 12 mo period	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Progressive multifocal leukoencephalopathy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• <i>Salmonella</i> septicemia, recurrent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Toxoplasmosis of brain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Wasting syndrome due to HIV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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• Toxoplasmosis of brain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																												
• Wasting syndrome due to HIV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																												
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> Candidiasis, bronchi, trachea, lungs  <input type="checkbox"/> Candidiasis, esophageal  <input type="checkbox"/> Carcinoma, invasive cervical  <input type="checkbox"/> Coccidioidomycosis, disseminated or extrapulmonary  <input type="checkbox"/> Cryptococcosis, extrapulmonary  <input type="checkbox"/> Cryptosporidiosis, chronic intestinal  <input type="checkbox"/> Cytomegalovirus disease (other than liver, spleen, or nodes)  <input type="checkbox"/> Cytomegalovirus retinitis (vision loss)  <input type="checkbox"/> HIV encephalopathy  <input type="checkbox"/> Herpes simplex: chronic ulcer(s); or bronchitis, pneumonitis, esophagitis  <input type="checkbox"/> Histoplasmosis, dissem. or extrapulm.  <input type="checkbox"/> Isosporiasis, chronic intestinal (&gt;1 mo)               </div> <div style="width: 50%; text-align: right;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 33%;"></th> <th style="width: 10%; text-align: center;">Def.</th> <th style="width: 10%; text-align: center;">Pres.</th> <th style="width: 10%; text-align: center;">Mo/Yr</th> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> </div> </div>					Def.	Pres.	Mo/Yr	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
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25. If AIDS, Facility of Diagnosis: _____ City/State: _____ <input type="checkbox"/> Public <input type="checkbox"/> Private <input type="checkbox"/> Federal																																																															
<b>TYPE OF FACILITY WHERE AIDS WAS DIAGNOSED: (Check One)</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> Hospital Inpatient  <input type="checkbox"/> Physician's Office             </div> <div style="width: 50%;"> <input type="checkbox"/> Hospital Outpatient  <input type="checkbox"/> Other: _____             </div> </div>																																																															
<b>Def. = definitive diagnosis    Pres. = presumptive diagnosis    Mo/Yr = date of initial diagnosis</b>																																																															

SHP-22

26. <input checked="" type="checkbox"/> <input type="checkbox"/> Patient (or Parent/Guardian) Informed of HIV Infection Status <input checked="" type="checkbox"/> <input type="checkbox"/> Physician Has Performed Spousal Notification <input checked="" type="checkbox"/> <input type="checkbox"/> Physician Requests Partner Notification Assistance <input checked="" type="checkbox"/> <input type="checkbox"/> Physician Requests Support/Referral Information Services <input checked="" type="checkbox"/> <input type="checkbox"/> Patient is Receiving Treatment for HIV/AIDS If Yes, <input type="checkbox"/> Antiretroviral <input type="checkbox"/> OI Prophylaxis	
27. <b>PATIENT'S MEDICAL TREATMENT PRIMARILY REIMBURSED BY:</b> <input type="checkbox"/> Private Insurance, HMO <input type="checkbox"/> Medicare <input type="checkbox"/> Private Insurance, Non HMO <input type="checkbox"/> Self Pay <input type="checkbox"/> Medicaid Managed Care <input type="checkbox"/> No Coverage <input type="checkbox"/> Medicaid Fee-for-Service <input type="checkbox"/> Other: _____	
28. <b>PHYSICIAN NAME, ADDRESS, TELEPHONE:</b>	
29. <b>PERSON COMPLETING HIV REPORT:</b>	30. <b>DATE:</b>
31. <b>COMMENTS:</b>	

FOR: **HIV/AIDS Care Case Management Services**  
KANSAS CITY: 816/513-6229; ST. LOUIS: 314/612-5188  
Or the Missouri Department of Health (MDOH)  
Section of STD/HIV/AIDS Prevention & Care Services  
Jefferson City, MO - PH: 573/751-6439

FOR: **Public Health Counseling and Intervention Services**  
**(Partner Notification OR Level II Client\*)**  
Kansas City: 816/513-6152; St. Louis: 314/612-5200  
Your Local County or District Health Office, or the MDOH  
Office of Surveillance, Jefferson City, MO - PH: 573/751-6148

**TO OBTAIN ADDITIONAL INFORMATION:**

- HIV CLINICAL CONSULTATION SERVICE: 1-800-933-3413
- OCCUPATIONAL EXPOSURE PROPHYLAXIS  
HOTLINE: 1-888-448-4911
- HIV/AIDS TREATMENT INFO. SERVICE: 1-800-HIV-0440
- NATIONAL AIDS HOTLINE: 1-800-342-AIDS
- MO HIV/STD HOTLINE: 1-800-533-AIDS
- KC HIV/AIDS HOTLINE: 816/ 513-6000

(\*An HIV-infected person who knowingly continues to expose others to HIV)

**Health Department Use Only:** Type of Report: VY SD  
Initial Source: \_\_\_\_\_ Report Source: \_\_\_\_\_

<b>SUBMIT REPORT TO:</b>	Missouri Department of Health-OOS	Kansas City Health Department	St. Louis Dept. of Health and Hospitals
	930 Wildwood, P.O. Box 570	Suite 2100, Surveillance Unit	Surveillance Unit / Room 436
	Jefferson City, MO 65102-0570	2400 Troost Ave., Kansas City, MO 64108	634 No. Grand Blvd., St. Louis, MO 63103
	Tel: (573) 751-6463	Tel: (816) 513-6152	Tel: (314) 612-5188

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**STATE/LOCAL USE ONLY**

Patient's Name: \_\_\_\_\_ Phone No.: ( ) \_\_\_\_\_  
 (Last, First, M.I.)  
 Address: \_\_\_\_\_ City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
**RETURN TO STATE/LOCAL HEALTH DEPARTMENT** **- Patient identifier information is not transmitted to CDC! -**

U.S. DEPARTMENT OF HEALTH  
& HUMAN SERVICES  
Centers for Disease Control  
and Prevention

# ADULT HIV/AIDS CONFIDENTIAL CASE REPORT

(Patients ≥13 years of age at time of diagnosis)



Form Approved OMB No. 0920-0009

**II. HEALTH DEPARTMENT USE ONLY**

**DATE FORM COMPLETED:** Mo. Day Yr.

**REPORT SOURCE:**

<b>SOUNDEX CODE:</b> <input type="text"/> <input type="text"/> <input type="text"/>	<b>REPORT STATUS:</b> 1 New Report 2 Update	<b>REPORTING HEALTH DEPARTMENT:</b> State: _____ City/County: _____	<b>State Patient No.:</b> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
			<b>City/County Patient No.:</b> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

**III. DEMOGRAPHIC INFORMATION**

<b>DIAGNOSTIC STATUS AT REPORT</b> (check one): 1 HIV Infection (not AIDS) 2 AIDS	<b>AGE AT DIAGNOSIS:</b> Years <input type="text"/> <input type="text"/> <input type="text"/>	<b>DATE OF BIRTH:</b> Mo. Day Yr. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<b>CURRENT STATUS:</b> Alive Dead Unk. <input type="text"/> <input type="text"/> <input type="text"/>	<b>DATE OF DEATH:</b> Mo. Day Yr. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<b>STATE/TERRITORY OF DEATH:</b> _____
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<b>SEX:</b> 1 Male 2 Female	<b>RACE/ETHNICITY:</b> 1 White (not Hispanic) 2 Black (not Hispanic) 3 Hispanic 4 Asian/Pacific Islander 5 American Indian/Alaska Native 9 Not Specified	<b>COUNTRY OF BIRTH:</b> 1 U.S. 7 U.S. Dependencies and Possessions (including Puerto Rico) (specify): _____ 8 Other (specify): _____ 9 Unknown
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**RESIDENCE AT DIAGNOSIS:**  
 City: \_\_\_\_\_ County: \_\_\_\_\_ State/Country: \_\_\_\_\_ Zip Code:

<p><b>IV. FACILITY OF DIAGNOSIS</b></p> <p>Facility Name: _____</p> <p>City: _____</p> <p>State/Country: _____</p> <p><b>FACILITY SETTING</b> (check one) 1 Public 2 Private 3 Federal 9 Unk.</p> <p><b>FACILITY TYPE</b> (check one) 01 Physician, HMO 31 Hospital, Inpatient 88 Other (specify): _____</p> <p><small>This report to the Centers for Disease Control and Prevention (CDC) is authorized by law (Sections 304 and 306 of the Public Health Service Act, 42 USC 242b and 242c). Response in this case is voluntary for federal government purposes, but may be mandatory under state and local statutes. Your cooperation is necessary for the understanding and control of HIV/AIDS. Information in CDC's HIV/AIDS surveillance system that would permit identification of any individual on whom a record is maintained, is collected with a guarantee that it will be held in confidence, will be used only for the purposes stated in the assurance on file at the local health department, and will not otherwise be disclosed or released without the consent of the individual in accordance with Section 306(d) of the Public Health Service Act (42 USC 242m).</small></p>	<p><b>V. PATIENT HISTORY</b></p> <p><b>AFTER 1977 AND PRECEDING THE FIRST POSITIVE HIV ANTIBODY TEST OR AIDS DIAGNOSIS, THIS PATIENT HAD</b> (Respond to ALL Categories):</p> <table border="1"> <thead> <tr> <th></th> <th>Yes</th> <th>No</th> <th>Unk.</th> </tr> </thead> <tbody> <tr> <td>• Sex with male</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>• Sex with female</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>• Injected nonprescription drugs</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>• Received clotting factor for hemophilia/coagulation disorder</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>Specify 1 Factor VIII 2 Factor IX 8 Other disorder: (Hemophilia A) (Hemophilia B) (specify): _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td>• HETEROSEXUAL relations with any of the following:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>• Intravenous/injection drug user</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>• Bisexual male</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>• Person with hemophilia/coagulation disorder</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>• Transfusion recipient with documented HIV infection</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>• Transplant recipient with documented HIV infection</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>• Person with AIDS or documented HIV infection, risk not specified</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>• Received transfusion of blood/blood components (other than clotting factor)</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>First Mo. Yr. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Last Mo. Yr. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td>• Received transplant of tissue/organs or artificial insemination</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>• Worked in a health-care or clinical laboratory setting (specify occupation): _____</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </tbody> </table>		Yes	No	Unk.	• Sex with male	<input type="text"/>	<input type="text"/>	<input type="text"/>	• Sex with female	<input type="text"/>	<input type="text"/>	<input type="text"/>	• Injected nonprescription drugs	<input type="text"/>	<input type="text"/>	<input type="text"/>	• Received clotting factor for hemophilia/coagulation disorder	<input type="text"/>	<input type="text"/>	<input type="text"/>	Specify 1 Factor VIII 2 Factor IX 8 Other disorder: (Hemophilia A) (Hemophilia B) (specify): _____				• HETEROSEXUAL relations with any of the following:				• Intravenous/injection drug user	<input type="text"/>	<input type="text"/>	<input type="text"/>	• Bisexual male	<input type="text"/>	<input type="text"/>	<input type="text"/>	• Person with hemophilia/coagulation disorder	<input type="text"/>	<input type="text"/>	<input type="text"/>	• Transfusion recipient with documented HIV infection	<input type="text"/>	<input type="text"/>	<input type="text"/>	• Transplant recipient with documented HIV infection	<input type="text"/>	<input type="text"/>	<input type="text"/>	• Person with AIDS or documented HIV infection, risk not specified	<input type="text"/>	<input type="text"/>	<input type="text"/>	• Received transfusion of blood/blood components (other than clotting factor)	<input type="text"/>	<input type="text"/>	<input type="text"/>	First Mo. 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• Worked in a health-care or clinical laboratory setting (specify occupation): _____	<input type="text"/>	<input type="text"/>	<input type="text"/>																																																																		

**VI. LABORATORY DATA**

<p><b>1. HIV ANTIBODY TESTS AT DIAGNOSIS:</b> (Indicate first test)</p> <p>• HIV-1 EIA <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>• HIV-1/HIV-2 combination EIA <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>• HIV-1 Western blot/IFA <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>• Other HIV antibody test (specify): _____</p> <p><b>2. POSITIVE HIV DETECTION TEST:</b> (Record earliest test)</p> <p><input type="checkbox"/> culture <input type="checkbox"/> antigen <input type="checkbox"/> PCR, DNA or RNA probe <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>• Other (specify): _____</p> <p><b>3. DETECTABLE VIRAL LOAD TEST:</b> (Record most recent test)</p> <p>Test type* <input type="text"/> <input type="text"/> COPIES/ML <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>*Type: 11. NASBA (Organon) 12. RT-PCR (Roche) 13. bDNA (Chiron) 18. Other</p>	<p>• Date of last documented negative HIV test (specify type): <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>• If HIV laboratory tests were not documented, is HIV diagnosis documented by a physician? <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>If yes, provide date of documentation by physician <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p><b>4. IMMUNOLOGIC LAB TESTS:</b></p> <p>AT OR CLOSEST TO CURRENT DIAGNOSTIC STATUS <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>• CD4 Count <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> cells/μL <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>• CD4 Percent <input type="text"/> <input type="text"/> <input type="text"/> % <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>First &lt;200 μL or &lt;14% <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>• CD4 Count <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> cells/μL <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>• CD4 Percent <input type="text"/> <input type="text"/> <input type="text"/> % <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p>
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STATE/LOCAL USE ONLY

Physician's Name: \_\_\_\_\_ (Last, First, M.I.) Phone No.: ( ) \_\_\_\_\_ Medical Record No. \_\_\_\_\_

Hospital/Facility: \_\_\_\_\_ Person Completing Form: \_\_\_\_\_ Phone No.: ( ) \_\_\_\_\_

- Patient identifier information is not transmitted to CDC! -

# VIII. CLINICAL STATUS

CLINICAL RECORD REVIEWED:	Yes	No	ENTER DATE PATIENT WAS DIAGNOSED AS:	Asymptomatic (including acute retroviral syndrome and persistent generalized lymphadenopathy):	Mo.	Yr.	Symptomatic (not AIDS):	Mo.	Yr.
<b>AIDS INDICATOR DISEASES</b>			Initial Diagnosis Def. Pres.	Initial Date Mo. Yr.					
Candidiasis, bronchi, trachea, or lungs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lymphoma, Burkitt's (or equivalent term)	<input type="checkbox"/>	<input type="checkbox"/>
Candidiasis, esophageal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lymphoma, immunoblastic (or equivalent term)	<input type="checkbox"/>	<input type="checkbox"/>
Carcinoma, invasive cervical	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lymphoma, primary in brain	<input type="checkbox"/>	<input type="checkbox"/>
Coccidioidomycosis, disseminated or extrapulmonary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mycobacterium avium complex or M. kansasii, disseminated or extrapulmonary	<input type="checkbox"/>	<input type="checkbox"/>
Cryptococcosis, extrapulmonary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M. tuberculosis, pulmonary*	<input type="checkbox"/>	<input type="checkbox"/>
Cryptosporidiosis, chronic intestinal (>1 mo. duration)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M. tuberculosis, disseminated or extrapulmonary*	<input type="checkbox"/>	<input type="checkbox"/>
Cytomegalovirus disease (other than in liver, spleen, or nodes)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mycobacterium, of other species or unidentified species, disseminated or extrapulmonary	<input type="checkbox"/>	<input type="checkbox"/>
Cytomegalovirus retinitis (with loss of vision)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pneumocystis carinii pneumonia	<input type="checkbox"/>	<input type="checkbox"/>
HIV encephalopathy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pneumonia, recurrent, in 12 mo. period	<input type="checkbox"/>	<input type="checkbox"/>
Herpes simplex: chronic ulcer(s) (>1 mo. duration); or bronchitis, pneumonitis or esophagitis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Progressive multifocal leukoencephalopathy	<input type="checkbox"/>	<input type="checkbox"/>
Histoplasmosis, disseminated or extrapulmonary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Salmonella septicemia, recurrent	<input type="checkbox"/>	<input type="checkbox"/>
Isosporiasis, chronic intestinal (>1 mo. duration)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Toxoplasmosis of brain	<input type="checkbox"/>	<input type="checkbox"/>
Kaposi's sarcoma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wasting syndrome due to HIV	<input type="checkbox"/>	<input type="checkbox"/>
Def. = definitive diagnosis Pres. = presumptive diagnosis * RVCT CASE NO.: <input type="checkbox"/>									
• If HIV tests were not positive or were not done, does this patient have an immunodeficiency that would disqualify him/her from the AIDS case definition? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown									

# IX. TREATMENT/SERVICES REFERRALS

Has this patient been informed of his/her HIV infection? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unk.	This patient is receiving or has been referred for:
This patient's partners will be notified about their HIV exposure and counseled by:	<ul style="list-style-type: none"> <li>HIV related medical services <input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/></li> <li>Substance abuse treatment services <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></li> </ul>
This patient received or is receiving: • Anti-retroviral therapy <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unk. • PCP prophylaxis <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unk.	This patient's medical treatment is primarily reimbursed by: <input type="checkbox"/> Medicaid <input type="checkbox"/> Private insurance/HMO <input type="checkbox"/> No coverage <input type="checkbox"/> Other Public Funding <input type="checkbox"/> Clinical trial/government program <input type="checkbox"/> Unknown
This patient has been enrolled at: Clinical Trial <input type="checkbox"/> NIH-sponsored <input type="checkbox"/> HRSA-sponsored <input type="checkbox"/> Other <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/> None <input type="checkbox"/> Unknown <input type="checkbox"/> Unknown	
<b>FOR WOMEN:</b> • This patient is receiving or has been referred for gynecological or obstetrical services: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown • Is this patient currently pregnant? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown • Has this patient delivered live-born infants? <input type="checkbox"/> Yes (if delivered after 1977, provide birth information below for the most recent birth) <input type="checkbox"/> No <input type="checkbox"/> Unknown	
<b>CHILD'S DATE OF BIRTH:</b> Mo. Day Yr. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Child's Soundex:</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>Hospital of Birth:</b> City: _____ State: _____	<b>Child's State Patient No.</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

X. COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**I. STATE/LOCAL USE ONLY**

Patient's Name: \_\_\_\_\_ Phone No.: ( ) \_\_\_\_\_  
 (Last, First, M.I.)  
 Address: \_\_\_\_\_ City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Code: \_\_\_\_\_  
**RETURN TO STATE/LOCAL HEALTH DEPARTMENT** - Patient identifier information is not transmitted to CDC! -

U.S. DEPARTMENT OF HEALTH  
 & HUMAN SERVICES  
 Centers for Disease Control  
 and Prevention

## PEDIATRIC HIV/AIDS CONFIDENTIAL CASE REPORT

(Patients <13 years of age at time of diagnosis)

**II. HEALTH DEPARTMENT USE ONLY**

Form Approved OMB No. 0920-0009

<b>DATE FORM COMPLETED:</b> Mo. <input type="text"/> <input type="text"/> Day <input type="text"/> <input type="text"/> Yr. <input type="text"/> <input type="text"/>	<b>SOUNDEX CODE:</b> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<b>REPORT STATUS:</b> <input type="checkbox"/> New Report <input type="checkbox"/> Update	<b>REPORTING HEALTH DEPARTMENT:</b> State: _____ City/County: _____	State Patient No.: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	City/County Patient No.: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<b>REPORT SOURCE:</b> <input type="text"/>					

**III. DEMOGRAPHIC INFORMATION**

<b>DIAGNOSTIC STATUS AT REPORT:</b> (check one) <input type="checkbox"/> Perinatally HIV Exposed <input type="checkbox"/> AIDS <input type="checkbox"/> Confirmed HIV Infection (not AIDS) <input type="checkbox"/> Seroconverter		<b>DATE OF LAST MEDICAL EVALUATION:</b> Mo. <input type="text"/> <input type="text"/> Yr. <input type="text"/> <input type="text"/>	
<b>DATE OF BIRTH:</b> Mo. <input type="text"/> <input type="text"/> Day <input type="text"/> <input type="text"/> Yr. <input type="text"/> <input type="text"/>	<b>AGE AT DIAGNOSIS:</b> Years <input type="text"/> <input type="text"/> Months <input type="text"/> <input type="text"/> HIV Infection (not AIDS) ... <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> AIDS ..... <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<b>CURRENT STATUS:</b> <input type="checkbox"/> Alive <input type="checkbox"/> Dead <input type="checkbox"/> Unk.	<b>DATE OF DEATH:</b> Mo. <input type="text"/> <input type="text"/> Day <input type="text"/> <input type="text"/> Yr. <input type="text"/> <input type="text"/>
<b>Was reason for initial HIV evaluation due to clinical signs and symptoms?</b> Yes <input type="checkbox"/> No <input type="checkbox"/> Unk. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		<b>SEX:</b> <input type="checkbox"/> Male <input type="checkbox"/> Female	<b>RACE/ETHNICITY:</b> <input type="checkbox"/> White (not Hispanic) <input type="checkbox"/> Asian/Pacific Islander <input type="checkbox"/> Black (not Hispanic) <input type="checkbox"/> American Indian/Alaska Native <input type="checkbox"/> Hispanic <input type="checkbox"/> Not specified
<b>COUNTRY OF BIRTH:</b> <input type="checkbox"/> U.S. <input type="checkbox"/> U.S. Dependencies and Possessions (including Puerto Rico) (specify): _____ <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Unk.		<b>RESIDENCE AT DIAGNOSIS:</b> City: _____ County: _____ State/Country: _____ Zip Code: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	

**IV. FACILITY OF DIAGNOSIS**

Facility Name: \_\_\_\_\_ City: \_\_\_\_\_ State/Country: \_\_\_\_\_

**FACILITY SETTING** (check one) **FACILITY TYPE** (check one)  
☐ Public ☐ Private ☐ Federal ☐ Unk. ☐ Physician, HMO ☐ Hospital, Inpatient ☐ Other (specify): \_\_\_\_\_

**V. PATIENT/MATERNAL HISTORY (Respond to ALL categories)**

<b>• Child's biologic mother's HIV Infection Status:</b> (check one) <input type="checkbox"/> Refused HIV testing <input type="checkbox"/> Known to be uninfected after this child's birth <input type="checkbox"/> HIV status unknown			
<b>Diagnosed with HIV Infection/AIDS:</b> <input type="checkbox"/> Before this child's pregnancy <input type="checkbox"/> At time of delivery <input type="checkbox"/> After the child's birth <input type="checkbox"/> During this child's pregnancy <input type="checkbox"/> Before child's birth, exact period unknown <input type="checkbox"/> HIV-infected, unknown when diagnosed			
<b>• Date of mother's first positive HIV confirmatory test:</b> Mo. <input type="text"/> <input type="text"/> Yr. <input type="text"/> <input type="text"/>		<b>• Mother was counseled about HIV testing during this pregnancy, labor or delivery?</b> Yes <input type="checkbox"/> No <input type="checkbox"/> Unk. <input type="checkbox"/>	
<b>After 1977, this child's biologic mother had:</b> Yes No Unk. • Injected nonprescription drugs ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • <b>HETEROSEXUAL</b> relations with: - Intravenous/injection drug user ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> - Bisexual male ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> - Male with hemophilia/coagulation disorder ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> - Transfusion recipient with documented HIV infection ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> - Transplant recipient with documented HIV infection ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> - Male with AIDS or documented HIV infection, risk not specified .. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • Received transfusion of blood/blood components (other than clotting factor) ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • Received transplant of tissue/organs or artificial insemination ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		<b>Before the diagnosis of HIV Infection/AIDS, this child had:</b> Yes No Unk. • Received clotting factor for hemophilia/coagulation disorder ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> (specify: <input type="checkbox"/> Factor VIII (Hemophilia A) <input type="checkbox"/> Factor IX (Hemophilia B) disorder): <input type="checkbox"/> Other (specify): _____ • Received transfusion of blood/blood components (other than clotting factor) ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> First: Mo. <input type="text"/> <input type="text"/> Yr. <input type="text"/> <input type="text"/> Last: Mo. <input type="text"/> <input type="text"/> Yr. <input type="text"/> <input type="text"/> • Received transplant of tissue/organs ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • Sexual contact with a male ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • Sexual contact with a female ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • Injected nonprescription drugs ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • Other (Alert State/City NIR Coordinator) ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	



**VI. STATE/LOCAL USE ONLY**

Physician's Name: _____ (Last, First, M.I.)	Phone No.: ( ) _____	Medical Record No. _____
Hospital/Facility: _____	Person Completing Form: _____	Phone No.: ( ) _____

**– Physician identifier information is not transmitted to CDC! –**

**VII. LABORATORY DATA**

<b>1. HIV ANTIBODY TESTS AT DIAGNOSIS:</b> (Record all tests, include earliest positive)		Positive	Negative	Indeterminate	Not Done	TEST DATE Mo. Yr.	
• HIV-1 EIA		1	0	–	9		
• HIV-1 EIA		1	0	–	9		
• HIV-1/HIV-2 combination EIA		1	0	–	9		
• HIV-1/HIV-2 combination EIA		1	0	–	9		
• HIV-1 Western blot/IFA		1	0	8	9		
• HIV-1 Western blot/IFA		1	0	8	9		
• Other HIV antibody test (specify):		1	0	8	9		

<b>2. HIV DETECTION TESTS:</b> (Record all tests, include earliest positive)		Positive	Negative	Not Done	TEST DATE Mo. Yr.	
• HIV culture		1	0	9		
• HIV culture		1	0	9		
• HIV antigen test		1	0	9		
• HIV antigen test		1	0	9		

<b>3. HIV VIRAL LOAD TEST:</b> (Record all tests, include earliest detectable)		Type: 11. NASBA (Organon) 12. RT-PCR (Roche) 13. bDNA (Chiron) 18. Other
Test type*	Detectable Yes No	Copies/ml
	1 0	

<b>4. IMMUNOLOGIC LAB TESTS:</b> (At or closest to current diagnostic status)		Mo. Yr.
• CD4 Count		
• CD4 Count		
• CD4 Percent		
• CD4 Percent		

<b>5. If HIV tests were not positive or were not done, or the patient is less than 18 months of age, does this patient have an immunodeficiency that would disqualify him/her from the AIDS case definition?</b>		Yes No Unk.
		1 0 9

<b>6. If laboratory tests were not documented, is patient confirmed by a physician as:</b>		Yes No Unk.	Date of Documentation Mo. Yr.
• HIV-infected		1 0 9	
• Not HIV-infected		1 0 9	

**VIII. CLINICAL STATUS**

AIDS INDICATOR DISEASES	Initial Diagnosis Def. Pres.	Initial Date Mo. Yr.	AIDS INDICATOR DISEASES	Initial Diagnosis Def. Pres.	Initial Date Mo. Yr.
Bacterial infections, multiple or recurrent (including Salmonella septicemia)	1 NA		Kaposi's sarcoma	1 2	
Candidiasis, bronchi, trachea, or lungs	1 NA		Lymphoid interstitial pneumonia and/or pulmonary lymphoid hyperplasia	1 2	
Candidiasis, esophageal	1 2		Lymphoma, Burkitt's (or equivalent term)	1 NA	
Coccidioidomycosis, disseminated or extrapulmonary	1 NA		Lymphoma, immunoblastic (or equivalent term)	1 NA	
Cryptococcosis, extrapulmonary	1 NA		Lymphoma, primary in brain	1 NA	
Cryptosporidiosis, chronic intestinal (>1 mo. duration)	1 NA		Mycobacterium avium complex or M. kansasii, disseminated or extrapulmonary	1 2	
Cytomegalovirus disease (other than in liver, spleen, or nodes) onset at >1 mo. of age	1 NA		M. tuberculosis, disseminated or extrapulmonary*	1 2	
Cytomegalovirus retinitis (with loss of vision)	1 2		Mycobacterium, of other species or unidentified species, disseminated or extrapulmonary	1 2	
HIV encephalopathy	1 NA		Pneumocystis carinii pneumonia	1 2	
Herpes simplex: chronic ulcer(s) (>1 mo. duration); or bronchitis, pneumonitis or esophagitis, onset at >1 mo. of age	1 NA		Progressive multifocal leukoencephalopathy	1 NA	
Histoplasmosis, disseminated or extrapulmonary	1 NA		Toxoplasmosis of brain, onset at >1 mo. of age	1 2	
Isosporiasis, chronic intestinal (>1 mo. duration)	1 NA		Wasting syndrome due to HIV	1 NA	

Def. = definitive diagnosis Pres. = presumptive diagnosis

Has this child been diagnosed with pulmonary tuberculosis?*	1 Yes 0 No 9 Unk.	If yes, initial diagnosis and date: 1 Definitive 2 Presumptive	Mo. Yr.	*RVCT CASE NO.:

# IX. BIRTH HISTORY (for PERINATAL cases only)

Birth history was available for this child: ☐ Yes ☐ No ☐ Unk. If No or Unknown, proceed to Section X.

## HOSPITAL AT BIRTH:

Hospital: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Country: \_\_\_\_\_

## RESIDENCE AT BIRTH:

City: \_\_\_\_\_ County: \_\_\_\_\_ State/Country: \_\_\_\_\_ Zip Code: \_\_\_\_\_

## BIRTHWEIGHT:

(enter lbs/oz OR grams)  
 lbs.  oz  
 grams

BIRTH: Type: .... ☐ Single ☐ Twin ☐ >2 ☐ Unk.

Delivery: ..... ☐ Vaginal ☐ Elective Caesarean ☐ Non-elective Caesarean  
☐ Caesarean, unk. type ☐ Unk.

Birth Defects: .... ☐ Yes ☐ No ☐ Unk.  
 Specify type(s): \_\_\_\_\_ Code:

• Did mother receive zidovudine (ZDV, AZT) during pregnancy? Refused Yes No Unk.  
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

• If yes, what week of pregnancy was zidovudine (ZDV, AZT) started? Weeks:   99 = Unk.

• Did mother receive zidovudine (ZDV, AZT) during labor/delivery? Refused Yes No Unk.  
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

• Did mother receive zidovudine (ZDV, AZT) prior to this pregnancy? Yes No Unk.  
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

## NEONATAL STATUS:

☐ Full term  
☐ Premature  
 Weeks   99 = Unk.

## PRENATAL CARE:

Month of pregnancy prenatal care began:  mos.  
 99 = Unk.  
 00 = None  
 Total number of prenatal care visits:    
 99 = Unk.  
 00 = None

• Did mother receive any other Anti-retroviral medication during pregnancy? Yes No Unk.  
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
 If yes, specify: \_\_\_\_\_

• Did mother receive any other Anti-retroviral medication during labor/delivery? Yes No Unk.  
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
 If yes, specify: \_\_\_\_\_

## Maternal Date of Birth

Mo. Day Yr.

## Maternal Surname:

## Maternal State Patient No.

## Birthplace of Biologic Mother:

☐ U.S. ☐ U.S. Dependencies and Possessions (including Puerto Rico) (specify): \_\_\_\_\_  
☐ Other (specify): \_\_\_\_\_ ☐ Unk.

# X. TREATMENT/SERVICES REFERRALS

## This child received or is receiving:

• Neonatal zidovudine (ZDV, AZT) for HIV prevention Yes No Unk. DATE STARTED Mo. Day Yr.  
☐ ☐ ☐         
 • Other neonatal anti-retroviral medication for HIV prevention Yes No Unk. DATE STARTED Mo. Day Yr.  
☐ ☐ ☐         
 If yes, specify: \_\_\_\_\_

• Anti-retroviral therapy for HIV treatment Yes No Unk. DATE STARTED Mo. Day Yr.  
☐ ☐ ☐         
 • PCP prophylaxis Yes No Unk. DATE STARTED Mo. Day Yr.  
☐ ☐ ☐

## Was child breastfed?

Yes No Unk.  
☐ ☐ ☐ ☐

## This child has been enrolled at:

Clinical Trial Clinic  
☐ NIH-sponsored ☐ Other ☐ HRSA-sponsored ☐ Other  
☐ None ☐ Unk. ☐ None ☐ Unk.

## This child's medical treatment is primarily reimbursed by:

☐ Medicaid ☐ Other Public Funding  
☐ Private insurance/HMO ☐ Clinical trial/government program  
☐ No coverage ☐ Unk.

## This child's primary caretaker is:

☐ Biologic parent(s) ☐ Other relative ☐ Foster/Adoptive parent, relative ☐ Foster/Adoptive parent, unrelated ☐ Social service agency ☐ Other (specify in Section XI.) ☐ Unk.

# XI. COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(XI. COMMENTS CONTINUED ON THE BACK)

This report to the Centers for Disease Control and Prevention (CDC) is authorized by law (Sections 304 and 306 of the Public Health Service Act, 42 USC 242b and 242c). Response in this case is voluntary for federal government purposes, but may be mandatory under state and local statutes. Your cooperation is necessary for the understanding and control of HIV/AIDS. Information in CDC's HIV/AIDS surveillance system that would permit identification of any individual on whom a record is maintained, is collected with a guarantee that it will be held in confidence, will be used only for the purposes stated in the assurance on file at the local health department, and will not otherwise be disclosed or released without the consent of the individual in accordance with Section 308(d) of the Public Health Service Act (42 USC 242m).

Public reporting burden of this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC, Project Clearance Officer, 1600 Clifton Road, MS D-24, Atlanta, GA 30333, ATTN: PRA (0920-0009). Do not send the completed form to this address.

## This image shows a single page from a notebook or ledger. It features horizontal blue ruling lines spaced evenly down the page. A vertical red dashed line runs along the left edge, creating a margin. The paper has a slightly off-white or cream color. There are no markings, text, or drawings on the page.